

Title (en)  
ACOUSTIC VALVE MECHANISMS

Title (de)  
AKUSTISCHE VENTILMECHANISMEN

Title (fr)  
MÉCANISMES POUR VALVE ACOUSTIQUE

Publication  
**EP 2345259 A4 20130828 (EN)**

Application  
**EP 09819815 A 20091007**

Priority  
• US 2009059829 W 20091007  
• US 10458908 P 20081010  
• US 16574609 P 20090401

Abstract (en)  
[origin: WO2010042613A2] A valve for a personal auditory system is described. The auditory system is capable of converting between an acoustic signal and an electrical signal. The auditory system has an acoustic pathway through which an acoustic signal may travel between a first point exterior to the auditory system and a second point interior to the auditory system. The valve includes a free floating electrode and a second electrode adjacent to free floating electrode. An electric signal that is generated by the second electrode moves the free floating electrode to substantially open or close the acoustic pathway.

IPC 8 full level  
**H04R 11/00** (2006.01); **F16K 3/02** (2006.01); **H04R 1/32** (2006.01); **H04R 9/00** (2006.01); **H04R 11/04** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)  
**F16K 3/246** (2013.01 - EP US); **F16K 31/082** (2013.01 - EP US); **H04R 1/326** (2013.01 - EP US); **H04R 25/402** (2013.01 - EP US); **H04R 25/456** (2013.01 - EP US); **H04R 2460/11** (2013.01 - EP US)

Citation (search report)  
• [XA] WO 2006061058 A1 20060615 - AUSTRIAMICROSYSTEMS AG [AT], et al  
• [XA] WO 2007107736 A2 20070927 - WOLFSON MICROELECTRONICS PLC [GB], et al  
• [XA] US 5349986 A 19940927 - SULLIVAN JAMES L [US], et al  
• [XAI] US 4893655 A 19900116 - ANDERSON ROBERT B [US]  
• [XAI] US 2006137934 A1 20060629 - KURTH ROLAND [CH]  
• See references of WO 2010042613A2

Cited by  
US10945084B2; US10869119B2; EP3471437A1; US10805746B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010042613 A2 20100415; WO 2010042613 A3 20100715**; CN 102210166 A 20111005; CN 102210166 B 20140430;  
EP 2345259 A2 20110720; EP 2345259 A4 20130828; EP 2345259 B1 20210317; TW 201029482 A 20100801; US 2010111340 A1 20100506;  
US 2011129108 A1 20110602; US 8798304 B2 20140805

DOCDB simple family (application)  
**US 2009059829 W 20091007**; CN 200980144766 A 20091007; EP 09819815 A 20091007; TW 98134411 A 20091009;  
US 57483209 A 20091007; US 96328910 A 20101208